

MATERIAL SAFETY DATA SHEET

Section I:

Manufactures Name: Walling Chemical Company

Address: 2008 Westport Ave., Box 408, Sioux Falls, SD 57117-0408

Phone #: 605-336-6710

Date Prepared: 12-27-85

Product Identity: Code 32

Synonyms: Phenolphthalein

Section II: Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL	ACGIH TLV	Flammability	LEL	UEL
Isopropanol	980mg/m ³	980mg/m ³	(3)	2.0%	12.7%
				Vol.	Vol.
Phenolphthalein	Not listed	Not listed	(0)	NA	NA

Other Cited Data: Ignition temp. for isopropanol is 750°F.

Comments: This product is an aqueous solution of isopropanol.

Section III: Physical/Chemical Characteristics

Boiling Point: 190°F Specific Gravity (H₂O=1): 0.85-0.95

Vapor Pressure: Unknown Melting Point: < 0°C

pH: neutral Evaporation Rate (Butyl acetate = 1): < 1

Appearance and odor: Clear liquid, alcohol odor

Section IV: Fire and Explosion Data

Flash Point: 53°F for isopropanol

Extinguishing Media: CO₂, dry chemical

Special Fire Fighting Procedures: Do not use water. Smother small fires.

Unusual Fire and Explosion Hazards: Do not use water to extinguish.

Section V: Reactivity Data

Stability: Stable Yes Unstable No

Conditions to avoid: Flames, contact

Incombatability: Oxidizers

Hazardous Decomposition or By Products CO, CO²

Hazardous Polymerization: Will Occur -, Will Not Occur +

Section VI: Health Hazard Data

Routes of Entry: Inhalation Yes Skin Yes Ingestion Yes

Health Hazards (Acute and Chronic) Skin and eyes: irritation. Ingestion: pain of the abdomen. Blindness.

Carcinogenicity: NTP NO IARC NO

OSHA Regulated NO Other NO

Signs and Symptoms of Exposure: Ingestion: abdominal pain, blindness

Medical Conditions Aggravated by Exposure: None known

Emergency and First Aid Procedures: Eyes and skin: flush thoroughly with water. Ingestion: induce vomiting, call a physician. Inhalation: remove to fresh air.

Section VII: Precautions for Safe Handling and Use.

Steps to be taken in case material is released or spilled: Absorb to inert material and incinerate.

Waste Disposal Method Follow federal, state and local regulations.

Precautions to be taken in handling and storing: Do not use near flames.

Other precautions: Avoid contact

Section VIII: Control Measures

Respiratory Protection: NA

Ventilation: Local Exhaust NA Special NA
Mechanical (Type) NA Other NA

Protective Gloves Latex, if needed Eye Protection Goggles

Other Eye wash

Comments: This reagent is flammable.

References Used:

Third Annual Report on Carcinogens
NTIS
Research Triangle Park, NC

Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids (1984)
NFPA
Batterymarch Park, Quincy, MA 02269

OSHA Safety and Health Standards
(29 CFR 1910) OSHA 2206
U.S. Dept. of Labor
Washington, D.C. 20402

Threshold Limit Values and Biological Exposure Indices For 1985-86
ACGIH, Cincinnati, OH 45211